

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<u>Sunnyhurst</u> Cycle A	Construction Can I design and make my own toy?		Food Where does our food come from?		Textiles Can I design and make my own drawer scenter?	
	Key CoverageDesign purposeful, functional, appealing products for themselves and other usersI can cut and Join appropriately for different materials and situations e.g. glue, tape.Use a range of materials to create models e.g. tubes, dowel, cotton reels. Roll paper to create tubes.Cut dowel or other material using hacksaw and bench hook.Mark out materials to be cut using a		Key Coverage Develop a food vocabulary using taste, smell, texture and feel. Group familiar food products e.g. fruit and vegetables. Explain where food comes from. Cut, peel, grate, chop a range of ingredients Work safely and hygienically. Understand the need for a variety of foods in a diet Use the basic principles of a healthy and varied diet to prepare dishes		scenter? Key Coverage Cut out shapes which have been created by drawing round a template onto the fabric. Join fabrics by using e.g. running stitch, glue, staples, over sewing, tape. Decorate fabrics with attached items e.g. buttons, beads, sequins, braids, ribbons. Colour fabrics using a range of techniques e.g. fabric paints, printing, painting.	
	Explore and evaluate a ra products Evaluate own ideas and p design criteria	products against	Measure and weigh food measures e.g. spoons, cu	ps	according to their characteristics	
Wider Curriculum Link:	History – Are IPads more fun than your grandparent's toys?		History- What does an English – Handa's Surp Geography- Would you or England?	rise	Art – The work of Jas Science – Which plar we find in our garder	nts and animals might
Outcome:	Design and make a toy		Design and make a heal fruit kebabs	thy meal – fruit salad /	Create a felt animal of scented petals from	or flower. Stuffed with the garden



<u>Sunnyhurst</u>	Paper skills	Mechanism	Food	
Cycle B	What might you find in the woods?	Can you make an animal move?	What can we eat beside the seaside?	
	Key Coverage:	Key Coverage	Key Coverage	
	Roll paper to make tubes	Join appropriately for different materials and situations	Develop a food vocabulary using taste, smell, texture and feel.	
	Pleat paper	e.g. glue, tape.		
	Fold and pleat to create springs	Mark out materials to be cut using a	Group familiar food products e.g. fruit and vegetables.	
	Tear paper	template.	Explain where food comes from.	
	Coil paper	Fold, tear and cut paper and card.	Cut, peel, grate, chop a range of ingredients Work safely and hygienically.	
	Fringe with scissors	Cut along lines, straight and		
	Cut along lines, straight and curved.	curved.	Understand the need for a variety of foods in a diet.	
		Use a hole punch.	Measure and weigh food items, non-standard	
	Use hole punch	Insert paper fasteners for card.	measures e.g. spoons, cups.	
	Snip and spread to create a firm base	Experiment with levers and sliders to find different ways of making things move in a 2D plane.	Evaluate and explore packaging ideas to store and carry their packed lunches based on knowledge of materials learned in science.	
	Create a box corner			
	Create a simple pop up			
Wider Curriculum Link:	Science – Seasonal Changes	Science – Why would a dinosaur not make a good pet?	Science- Can a spoon be made of paper? Geography- Why do we like to be beside the seaside?	
Outcome:	Design and make a miniature autumn woodland	Make an animal with moving parts	Design and make a healthy packed lunch for a school trip to Blackpool including investigating packaging to carry it	



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<u>Anglezarke</u> Cycle A	Mechanisms Could we have stopped the Great Fire of London?				Textiles Can we design clothing for a range of audiences?	
	Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Join appropriately for different materials and situations e.g. glue, tape. Try out different axle fixings and their strengths				Key Coverage:	
					Use research and develop the design of innovative, f products that are fit for pr particular individuals or g Develop vocabulary for to properties.	functional, appealing urpose, aimed at roup
			Understand seam allowan Join fabrics using running			
	Make vehicles with constru free running wheels.	uction kits which contain			blanket stitch. Prototype a product using J cloths. Use prototype to make pattern.	
	Use a range of materials to wheels and axles e.g. tubes				Explore strengthening and	
					Explore fastenings (invent	ors?) and recreate some.
			Sew on buttons and make	w on buttons and make loops.		
	Mark out materials to be c	ut using a template.			Use appropriate decoration	on techniques.
	Understand how key even design and technology hav world				Evaluate their ideas and p design criteria and consid improve their work	•
Wider Curriculum Link:	History- The Great Fire of L	ondon			Art and Design – Poonac	
Outcome:	wheels and axles Design and make a vehic	le			Decorated T shirt applique linked to divers theme based on art and design study on Poo	



Anglezarke	Construction	Food	Structures
	How did the Ancient Egyptians build the	Are takeaways always unhealthy?	Can we make a boat like the Anglo Saxons?
Cycle B	pyramids?		
	Key Coverage	Key Coverage	Key Coverage:
	Select from and use a wider range of tools and equipment to perform practical tasks [for example,	Understand and apply the principles of a healthy and varied diet	Explore how to make structures stronger.
	cutting, shaping, joining and finishing], accurately	Prepare and cook a variety of predominantly	Investigate different techniques for stiffening a variety of materials.
	Select from and use a wider range of materials and components, including construction materials,	savoury dishes using a range of cooking techniques	
	textiles and ingredients, according to their	Develop sensory vocabulary/knowledge using, smell, taste, texture and feel.	Test different methods of enabling structures to remain stable.
		Analyse the taste, texture, smell and appearance of a range of foods (predominantly savoury).	Join appropriately for different materials and situations e.g. glue, tape.
	Use mechanical systems such as gears, pulleys, levers and linkages.	Follow instructions/recipes.	Mark out materials to be cut using a
		loin and combine a range of ingredients. Explore seasonality of vegetables and fruit.	template.
	Use linkages to make movement larger or more varied	Find out which fruit and vegetables are grown in countries/continents studied in Geography.	Use a glue gun with close supervision.
	Understand how key events and individuals in design and technology have helped shape the world	Understand seasonality	
		Develop understanding of how meat/fish are reared/caught.	
Wider Curriculum Link:	History- Ancient Egypt	Geography – What hemisphere do we live in?	History- Why did the Anglo Saxons and Vikings Fight?
Outcome:	Use mechanical systems such as gears, pulleys, levers and linkages to design a lever / pulley system to help the Ancient Egyptians build a pyramid and lower a sarcophagus in to a tomb	Anglezarke Takeaway! Design and make healthy pizzas and packaging to make and order for the school	Design, make and evaluate an Anglo-Saxon sailing boat linked to Sutton Hoo

Design and technology long-term plan



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Roddlesworth	Mechanical and Electrical Systems and ICT		Structures		Cooking and nutrition	
	How can computers help things move?		How did the Ancient Greeks make the		How can eating keep you healthy?	
Cycle A			temples so strong?			
	Develop a technical vocabulary appropriate to the project.Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groupsPrepare f propertie character Understa how a va caught arUse mechanical systems such as cams, pulleys and gears.Investigate and analyse a range of existing productsUndersta how a va caught arUse electrical systems such as motors.Use the correct terminology for tools materials and processes.Weigh ar and processes.Apply their understanding of computing to program, monitor and control their products.Use a bradawl to mark hole positions.Select an purpose.		Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups Investigate and analyse a range of existing		Key Coverage Prepare food products considering the properties of ingredients and sensory characteristics. Understand seasonality, and know where and how a variety of ingredients are grown, reared	
			caught and processed Weigh and measure us	ing scales.		
					Select and prepare foods for a particular purpose.	
			Use hand drill to drill tig	ht and loose fit holes.	Work safely and hygier	nically.
			Cut strip wood, dowel, s accurately to 1mm.	quare section wood	Show awareness of a h	ealthy and varied diet
			Join materials using app	opriate methods.	Use a range of cooking	techniques.
			Build frameworks to sup	port mechanisms.	Know where and how i and processed.	ngredients are grown
			Stiffen and reinforce complex structures.		Consider influence of chefs e.g. Jamie Oliver and school meals, Hugh Fearnley-Whittingstall and sustainable fishing etc.	
Wider Curriculum Link:	ICT: Programming and Coding		History- What if you lived in Ancient Greece?		Science- What if your hear	rt stopped?
Outcome:	Designing and making a pelectronics	oully system using	Design and create a mod	el of Greek temple	Design, create and cost a family of four	a healthy savoury dish for



Design and technology long-term plan

Roddlesworth Cycle B	Cooking and nutrition Were the 'hunter gatherers' sustainable?	Textiles Can I design and make a gadget case?	Structures Does water always flow along the ground?	
	Key Coverage:	Key Coverage:	Key Coverage:	
	Prepare food products taking into account the properties of ingredients and sensory characteristics. Weigh and measure using scales.	Use the correct vocabulary appropriate to the project. Create 3D products using patterns pieces and seam allowance.	Use the correct terminology for tools materials and processes. Use bradawl to mark hole positions.	
	Select and prepare foods for a particular purpose.	Understand pattern layout. Decorate textiles appropriately (often before joining	Use hand drill to drill tight and loose fit holes.	
	Work safely and hygienically. Show awareness of a healthy diet (using the eatwell plate).	components). Pin and tack fabric pieces together.	Cut strip wood, dowel, square section wood accurately to 1mm. Join materials using appropriate methods.	
	Use a range of cooking techniques.	Join fabrics using over sewing, back stitch, blanket stitch or machine stitching (closer supervision).	Build frameworks to support mechanisms. Stiffen and reinforce complex structures.	
	Know where and how ingredients are grown and processed.	Combine fabrics to create more useful properties. Make quality products.		
	Consider influence of chefs e.g. Jamie Oliver and school meals, Hugh Fearnley-Whittingstall and sustainable fishing etc.			
Wider Curriculum Link:	History- From Stone Age to the end of the Roman Occupation Geography- What if there were no rainforests? - link to Amazon and other river biomes	Art and Design – Andy Warhol	History- what if the Romans had never invaded Britain?	
Outcome:	Making Fish cakes- investigate sustainable fishing	Design, Make and Evaluate a Laptop, ipad, mobile phone sleeve	Making a Roman Aqueduct/viaduct models including a prototype	



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Roddlesworth	Cooking and nutrition				Structures	
	What might they have eaten in WW2?				Can you	frame it?
Cycle C						
_	Key Coverage:				Key Coverage:	
	Develop sensory vocabulary/knowledge using, smell, taste, texture and feel. Analyse the taste, texture, smell and appearance of a range of foods (predominantly savoury).				Use the correct terminolo processes.	ogy for tools materials and
					Use bradawl to mark hole	e positions.
	Follow instructions/recip	25.			Use hand drill to drill tigh	
	Make healthy eating cho plate	ices – use the <i>Eatwell</i>			Cut strip wood, dowel, so accurately to 1mm.	uare section wood
	Join and combine a range	e of ingredients.			Join materials using methods.	appropriate
	Explore seasonality of ve	getables and fruit.				o support
	Find out which fruit and v	•			mechanisms.	
	countries/continents stu	died in Geography.			Stiffen and reinford	e complex
	Develop understanding c reared/caught.	-			structures.	
Wider Curriculum Link:	History- How could Hitle nation like Germany to				Link back to Sculpture unit in Spring Term - Calder Art – Paul Nash – Painting	
Outcome:	Designing and making WW2 Ration food				Creating a p	victure frame